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| Sheet | 1 | of | 2 |
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| Application Number | 10/734,726 |
| Filing Date | December 12, 2003 |
| First Named Inventor | MURPHY, David, et al |
| Art Unit | |
| Examiner Name | |
| Attorney Docket Number | 924511-100030 |

U. S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (If known) | | | |
| PA | AA | US- 3,144,104 | 08-11-1964 | Weir, et al. | |
| | AB | US- 3,434,674 | 03-25-1969 | Groskopf, Ernest | |
| | AC | US- 3,486,279 | 12-30-1969 | Webb, James E. | |
| | AD | US- 4,018,397 | 04-19-1977 | Rusch, et al. | |
| | AE | US- 4,334,391 | 06-15-1982 | Hedgepeth, et al. | |
| | AF | US- 4,475,323 | 10-09-1984 | Schwartzberg, et al. | |
| | AG | US- 4,532,742 | 08-06-1985 | Miura, Koryo | |
| | AH | US- 4,557,097 | 12-10-1985 | Mikulas, Jr., et al. | |
| | AI | US- 4,569,176 | 02-11-1986 | Hedgepeth, et al. | |
| | AJ | US- 4,599,832 | 07-15-1986 | Benton, et al. | |
| | AK | US- 4,677,803 | 07-07-1987 | Mikulas, Jr., et al. | |
| | AL | US- 4,918,884 | 04-24-1990 | Okazaki, et al. | |
| | AM | US- 5,016,418 | 05-21-1991 | Rhodes, et al. | |
| | AN | US- 5,094,046 | 03-10-1992 | Preiswerk, Peter R. | |
| | AO | US- 5,267,424 | 12-07-1993 | Douglas, Mark V. | |
| | AP | US- 6,076,770 | 06-20-2000 | Nygren, et al. | |
| | AQ | US- 6,321,503 B1 | 11-27-2001 | Warren, Peter A. | |
| | AR | US- 6,343,442 B1 | 02-05-2002 | Marks, Geoff | |
| | | US- | | | |

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date
Considered

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STATEMENT BY APPLICANT**

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| | Art Unit | |
| | Examiner Name | |
| | Attorney Docket Number | 924511-100030 |

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|--------------------|-----------------------|---|----------------|
| AA | AS | AEC-ABLE, "New Structures for Large Sensor Array Platforms - Phase I Final Report," (6/14/03) | |
| | AT | AEC-ABLE, "NASA SBIR Phase 2 Proposal for New Structures for Large Sensor Array Platforms: Hardware Development of Second-order Augmentation of Lattice Trusses" (7/14/03) | |
| | AU | R.F. CRAWFORD, "Strength and Efficiency of Deployable Booms for Space Applications," AAS/ AIAA Variable Geometry and Expandable Structures Conf., Anaheim, Calif., AIAA Paper No | |
| | AV | PowerPoint Slides used in a December 12, 2002 Briefing by AEC-ABLE to the National Reconnaissance Organization | |
| | AW | THOMAS W. MURPHEY, "Performance Trends in Hierarchical Space Structures," posted to AEC-Able's Website April 2002 | |
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| Examiner Signature |  | Date Considered | 5/30/06 |
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